## **IN THE CLAIMS**:

Please cancel non-elected claims 17-51 without prejudice or disclaimer.

Please amend the claims as follows:

6 5. (Amended) The electrochemical test device of Claim 1 wherein the [non-conductive surface comprises a] flexible material comprises a polymeric sheet material [or a non-conductive coating affixed to one side of a flexible polymeric sheet material].

Please add the following new claims:

-- 52. An electrochemical testing device comprising:

a substrate of sufficient flexibility to undergo roll-type processing, the substrate layer comprising a flexible metallic material;

a non-conductive, surface morphology-improving coating affixed to a surface of the substrate layer; and

an amorphous semiconductor material layer affixed to the non-conductive coating.

53. The electrochemical test device of claim 52, wherein the substrate has a thickness of 0.0005 - 0.005 inches.

54. The electrochemical test device of claim 53, wherein the metallic material comprises aluminum.

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- 55. The electrochemical test device of claim 52, wherein the coating has a thickness less than about 0.005 inches.
- 56. The electrochemical test device of claim 55, wherein the coating comprises an epoxy coating.
- 57. The electrochemical test device of claim 52, wherein the semiconductor material comprises amorphous silicon oxide.
- 58. The electrochemical test device of claim 57, wherein the amorphous silicon oxide is doped with an ion to increase conductivity.
- 59. The electrochemical test device of claim 52, wherein the semiconductor material layer has a thickness of 1 5 microns.
  - 60. An electrochemical testing device comprising:

a substrate of sufficient flexibility to undergo roll-type processing, the substrate layer comprising an annealed, preshrunk polymeric material;

a surface morphology-improving coating affixed to a surface of the substrate layer; and

an amorphous semiconductor material affixed to the non-conductive coating.

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- 61. The electrochemical test device of claim 60, wherein the coating is a non-conductive coating.
- 62. The electrochemical test device of claim 60, wherein the polymeric material comprises one of a polyester polycarbonate, and polyimide material.
- 63. The electrochemical test device of claim 60, wherein the coating has a thickness less than about 0.005 inches.

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- 64. The electrochemical test device of claim 60, wherein the semiconductor material comprises amorphous silicon oxide.
- 65. The electrochemical test device of claim 64, wherein the amorphous silicon oxide is doped with an ion to increase conductivity.
- 66. The electrochemical test device of claim 60, wherein the semiconductor material layer has a thickness of 1 5 microns. --